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Marshall Space Flight Center



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Portable Light Detection System For the Blind

A portable light detection system has been developed for use by the blind. There are several ways in which a blind person might find such a device helpful. It can be used to detect the "ready" light on an automatic cooking device (such as a coffee pot), to tell if lights are on for visitors, or to tell whether it is daylight or dark outside.

The device is actuated much like a flashlight. It is operated by a button switch and indicates the presence of light by an audible buzzer. The circuit is shown in the accompanying diagram.

+3 Volts
CL90 5L
2N2222
100 K
GA100

Circuit For Light Detector

The circuitry is housed in a durable plastic case and is quite simple and trouble free. When light impinges on the photo cell, the transistor is activated. This energizes the buzzer which sounds to indicate the presence of light.

The 100 kilohm variable resistor can be adjusted to make the device sensitive enough to detect a cooking light or coarse enough to distinguish between day and night. In addition, the entire device is small enough to be held in the hand and carried in a shirt or pants pocket.

Note:

No further documentation is available. Specific questions, however, may be directed to:

Technology Utilization Officer
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Reference: B73-10099

Patent status:

Inquiries concerning rights for the commercial use of this invention should be addressed to:

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